

IMPORTANT: Gesture vs. Signed language

Gestures are different from signs

Signed language is a system of communication that functions as a real language on its own right It has a syntax (gesture doesn't)
It has a lexicon (gestures doesn't)
It is rule-based (gesture is not)
Etc.

Do signers gesture? Yes.

Important:

Some gestures occur with speech and some do not

Co-speech gestures

Gestures that occur with speech
They often add important information to what is being stated



Some basic ways to produce gestures

- 1. Manual gestures
- 2. Body gestures
- 3. Facial gestures

Manual gestures

Using hands to communicate

Examples

- 1. Your friend enters a crowded theater. You see her looking around for a seat. When she sees you, <u>you tap the seat next to you with your hand.</u>
- 2. You tell your friend, "I rolled down the hill", and while you say it, you <u>make a rolling gesture</u> with your hand





Body gestures not just hands

Using a body movement to communicate

Examples:

Clark and Gerrig (1990)

Person says, "When I was getting out of the car, demonstrate bumping head on the top of the car]...

Your friend is talking about a party, and says,
"I was totally [demonstrates bending over and vomiting]..."

Facial gestures

Some obvious ones: Smile, frown

Others, what do these mean? Scrunching up nose... Opening eyes wide...

What are some others?



How are gestures learned?

We don't know all the details, many questions to explore, including:

Do babies "babble" with physical movements BEFORE they learn to gesture?



What we DO know: Kids notice subtle social cues and want to help others = having a social role is important to them Gesture is part of this Video: Baby humans will help others with physical actions

Research on **pointing**

Babies learn to point very early
They learn to extend hand and arm toward objects to draw
attention to things in the world

Adults also point at things, including things that are no longer there or that refer to metaphorical things in the world, like days, ideas, etc.



Pointing Human pointing is useful to dogs

Emblematic gestures

Gestures that stand for a particular thing, like "ok" Conventional, can be quoted (repeated and understood) BUT they can vary a lot from culture to culture These are also called "symbolic" gestures

Gesture researchers are not especially interested in these BUT everyday people tend to think of THESE when you mention the word "gesture"





























Who benefits?

1. Nobody.

Gestures communicate nothing useful to the listener.

This view has little support these days.



Who benefits?

2. Listener.

Gestures communicate <u>something to listener</u>, but they are pretty random and not well-coordinated with speech.

Who benefits?

3. Listener.

Gestures help the listener understand messages, and they are well-coordinated with speech (not random).



Who benefits?

4. Speaker.

Gestures help the speaker produce a meaningful, coherent message.



Who benefits?

5. Both.

Gestures help both the speaker and the listener



Some research on gesture

The reading for today: Why people gesture when they speak Nature article by Iverson and Meadows

The study examined 12 blind and 12 sighted children (average 11.5) Children did a reasoning task

All kids gestured while speaking/doing the task
All kids used similar gestures \Rightarrow example: iconic gesture to show pouring
Blind people still gestured even when they thought the person they were talking
to was blind

- <u>Different hypotheses:</u>

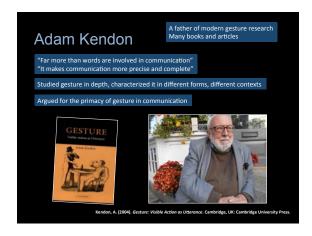
 1. Do people learn to gesture because they SEE others gesturing?
- 2. Do they simply learn/know that seeing a gesture helps listeners understand?
- 3. Is gestures just somehow important so the speaking process? THEIR DATA SEEMED TO SUPPORT THE HYPOTHESIS 3. Blind people still gest

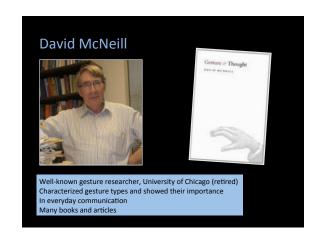
Why do we gesture?

According to Sherman Wilcox, we gesture a lot because gestures evolved in human communication BEFORE spoken language did

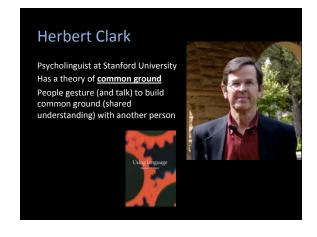
On this view, spoken language evolved to disambiguate gesture communication

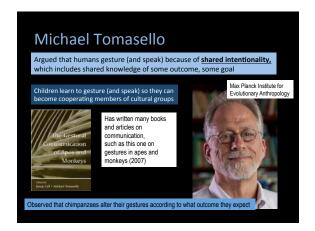


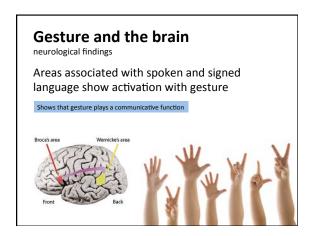


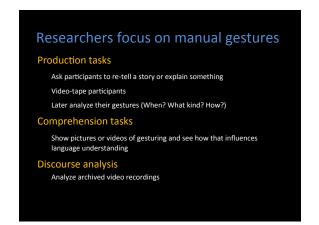




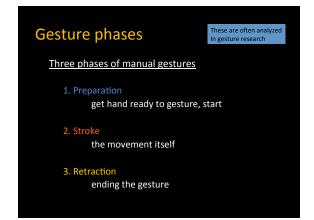


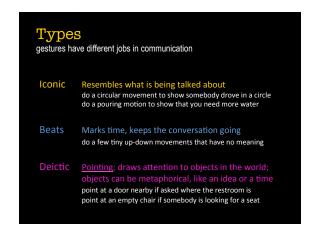




























Next time No class on THURSDAY! See you AFTER Spring break